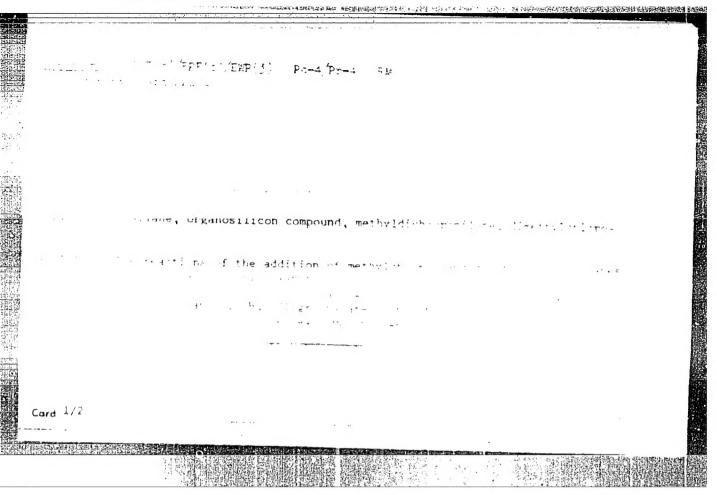
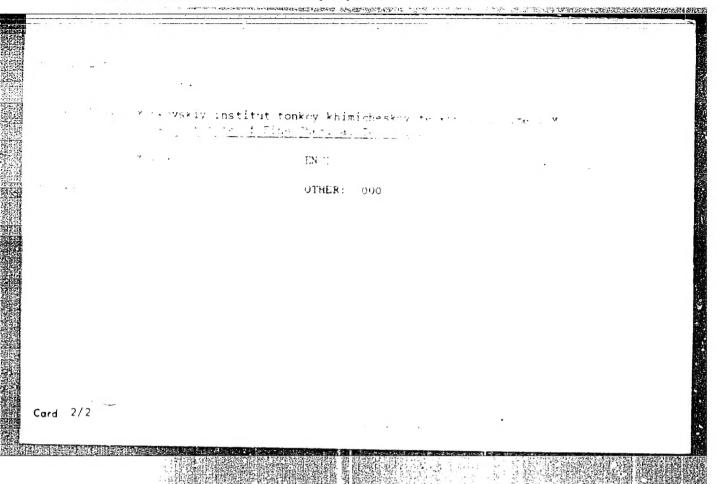
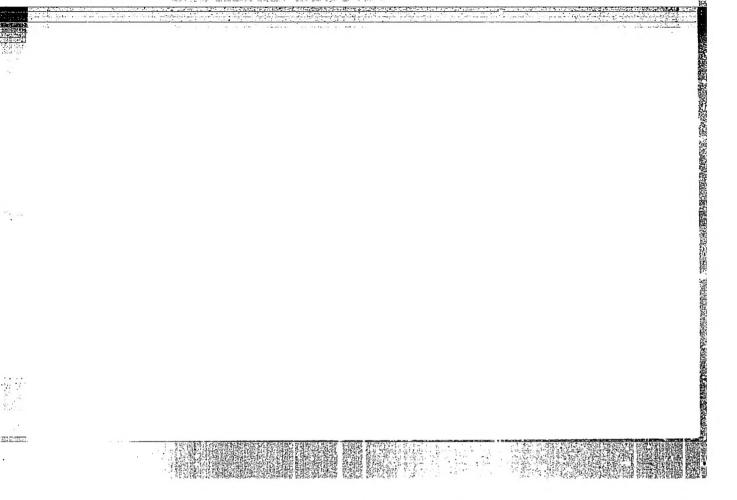


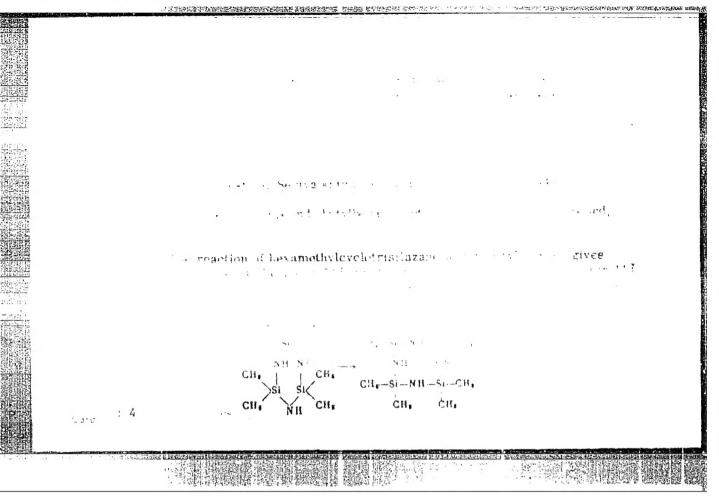
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_	Heptamethyl allyl cyclotetrasiloxane	和° (3)	122.0	10414	7.31	83.61
طبط	nexametnyl diallyl cyclotetrasiloxane	57-58 (3)	1.4243	15.9691	1 12.78	92.10
4 4.4	Pentamethy) triallyl Dychsternssiloxane	22 (3)	i Landa C		* . *	137.85
¥	der Vitetraethyl allyl	70-72				4.3
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Card 3/3						



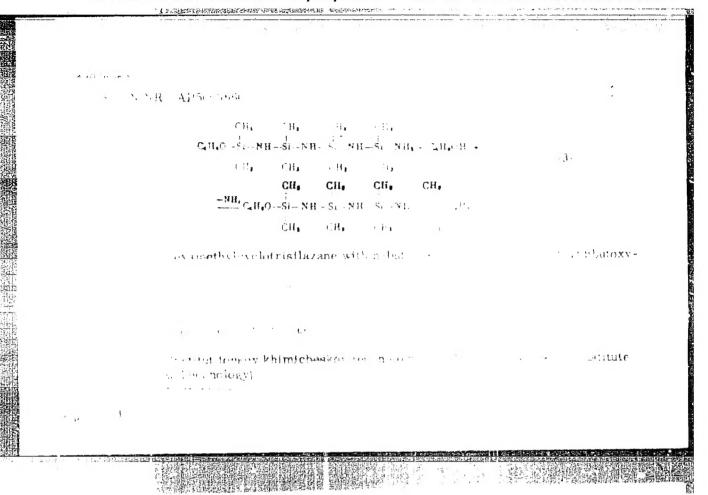






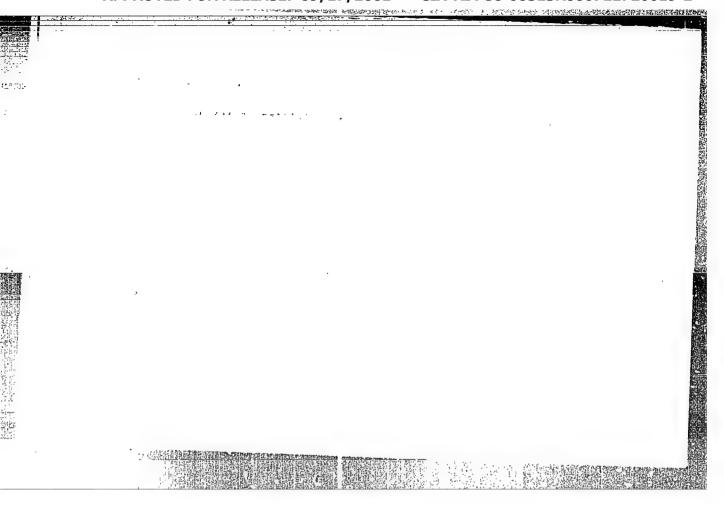


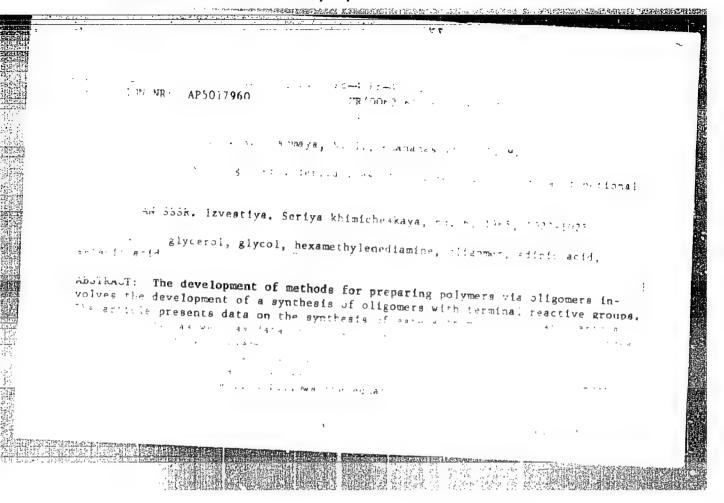
4-07/ 3 ACCESSION NR: AP5009660 or graphy action gloribol with a remarkable between Estano, the ring is WHO WHO THE THE Si-NH-Si 0-Calle ΝН ... Н (2) CH Si - NH - Ji - CH. CH. CH. CH. CH. CH. CH. · - CelleO-SI-NH-SI-NH-SI-NH-SI-NH, CI. CH. CH. amino group of the compound thus formed reacts with the alcohol, and ammonia Card 2/4

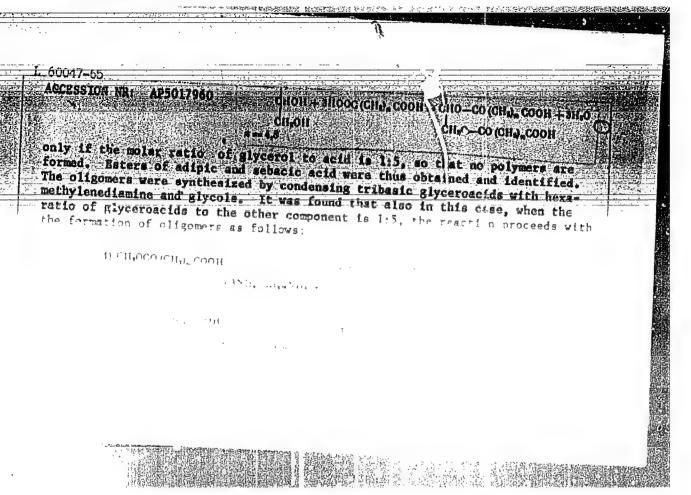


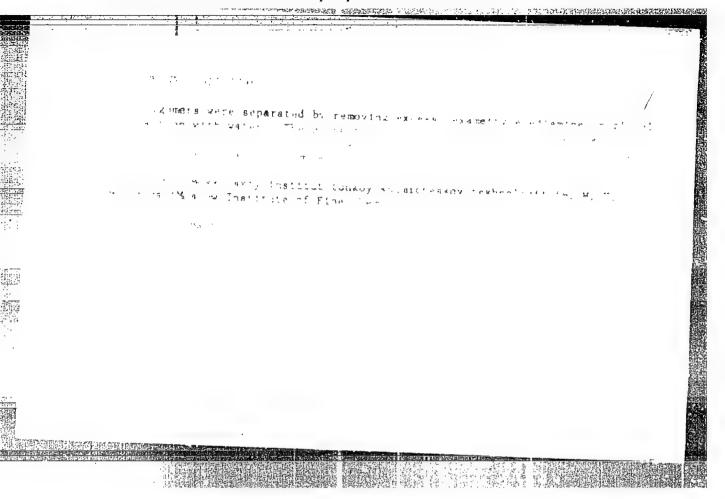
OPIC TAGS: silane, silicon organic compounds, hydrolysis, organic synthesis . mylo3,3,5,5-tetraethyloyolotrililoxabe a.c., c.ercv.-3,5-dimethyl-

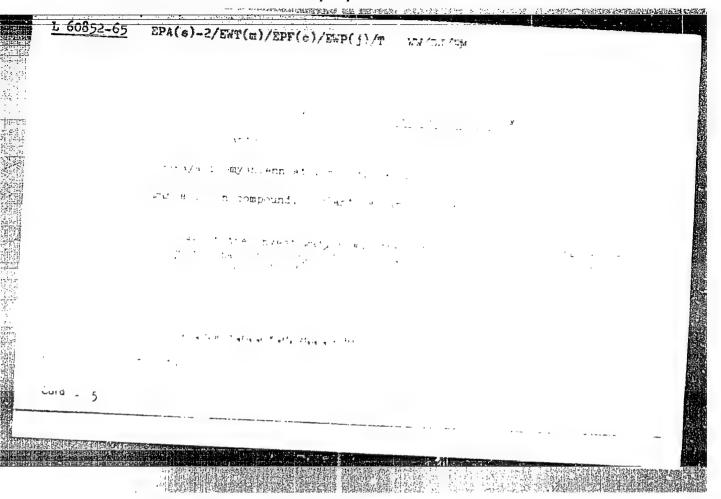
at the virtue of the first state of the authors thank H. Q. Sayteeya for the determination of the IR spectra. Orig. art. has: 3 formulae and 1 table.

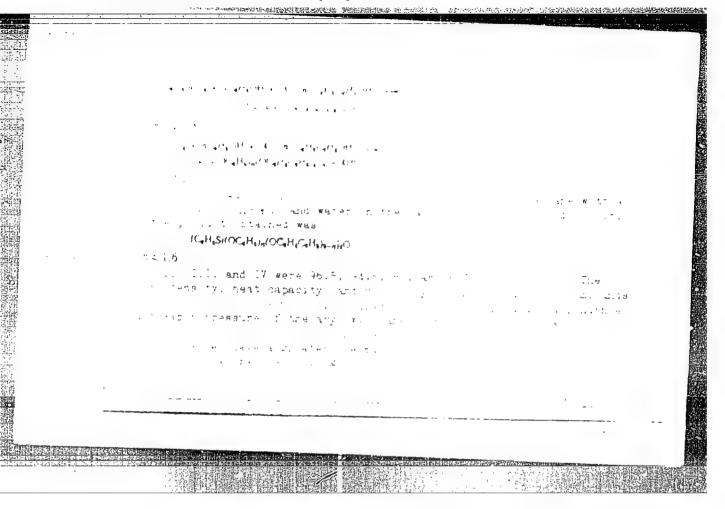


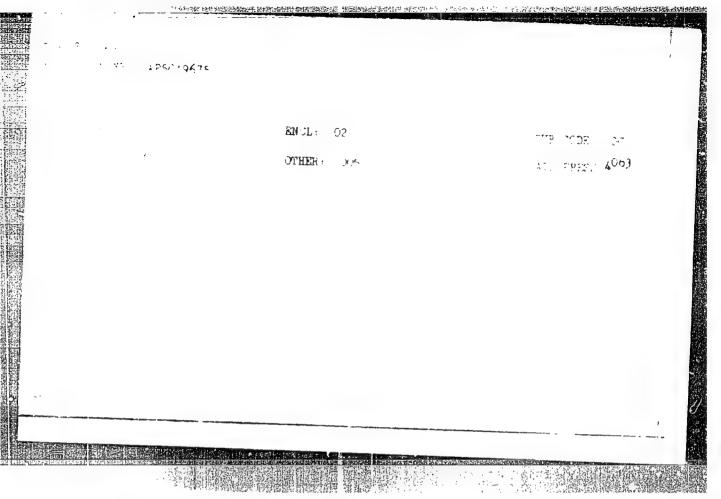


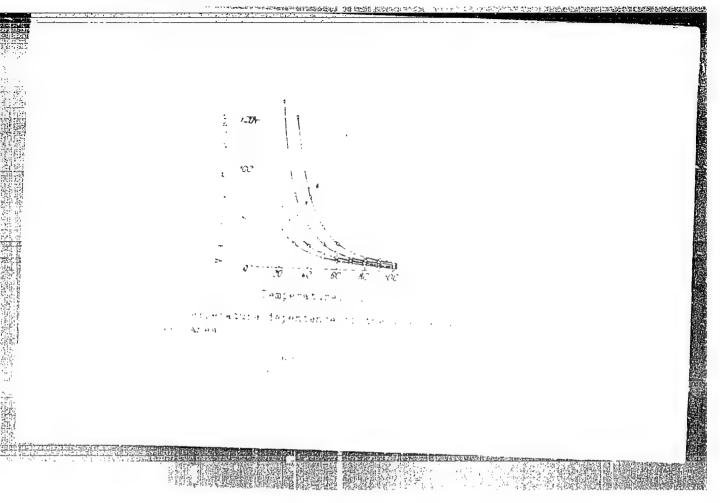




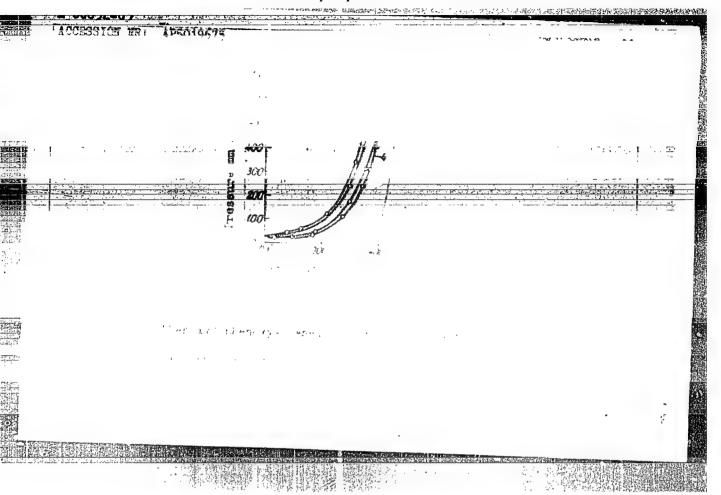








APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"



ANDRIANOV, K.A.; TAIANOV, V.N.; KHANANASHVILI, L.M.; SOBOLEV, Ye.S.

Interaction of & a-dichlorodimethylsiloxanes with ethylamine and diethylamine. Izv. AN SSSR. Neorg. mat. 1 no.11:1849-(MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova. Submitted June 3, 1965.

L 16082- ACC NR: A		The same of the sa	•••
		SOURCE CODE: UR/0079/66/036/001/0105/010	7
AUTHOR: A	indrianov, K. A.; Kurako	ov, G. A.; Kopylov, V. H.; Khananashvili r	i
nstitut to	onkoy khimicheskoy tekhi	nemical Technology im. H. V. Lomonosov (Moskovsk	iy
ITLE: Red	action of aluminum bromi	side with octamethylcyclotetrasiloxane	
OURCE: Z	hurnal obshchey khimii.	V. 36 no 1 1000	
OPIC TAGS:	crganosilicon compoun	nd aluminum compound, bromide	2
STRACT: Ider vario le authors lesed earli loxane:	The reaction between occurs conditions and with found that the reaction between for the reaction between the react	ctamethylcyclotetrasiloxane and aluminum bromide various proportions of the reactants was studie proceeds in accordance with the mechanism proteen aluminum chloride and octamethylcyclotes.	d.
CH <sub>3</sub> ) <sub>2</sub> Si-O-1	SI(GH <sub>9</sub> ) <sub>2</sub> + AIBe <sub>3</sub> - (CH <sub>9</sub> ) <sub>2</sub> SI-	-0-SI(CH <sub>3</sub> ) <sub>8</sub> O	
rd 1/3	(1)	UDC: 547.245 + 546.623	1

L 16082-	66 P6005930			
	formed decomp	oses to form	t and the second second second	2
		CH <sub>3</sub> CH <sub>3</sub> Br-Si-O-Si-Br (I) and CH <sub>3</sub> CH <sub>3</sub> (II) then react with one mol	SI	(II)
				-orm min
		(CH <sub>9</sub> ) <sub>8</sub> Si AlBr AlBr <sub>9</sub> (IIII)	·	
nder more d		(CH <sub>3</sub> ) <sub>3</sub> Si AlBr AlBr <sub>3</sub> (III) Ons, the following reaction of pressure:		llation of

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L 1608	12-66											
NCC NK;	AP6005930	,				communication of the second	the second section of	***************************************		************	······································	1
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				-SIBr + AIB	r (CH-)-9	int.					/	
			CHs		.a forigino	inia 4.						
			City	L CH								
1 .			No.	+ Br-St-								
					d Am							
			The same of	# Br-31-	-O-AlBra	1						
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By changinethyldib	ng the read	ction (	conditi	ons, one o	an obtain	dimet	hyldib	romosi	lane	tetra	1-	
By changinethyldiby	ng the read romodisilon n 3 and 4 p	ction ( kane, ( Bilicon	conditi crystal	ons, one o	an obtain	dimen	hyldib ligher	romosi α,ω-di	lane	tetra Olysi	1- 10-	
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	α,ω-di	lane	tetra Olysi	1- 10-	
By changinethyldiby xanes with SUB CODE:	n 3 and 4 t	Bilico	conditi crystal a atoms DATE:	ons, one of line produ . Orig. a	an obtain	2 tab	les.	a,w−di	promot	tetra Olysi	1- 10-	,
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	α,ω-di	promot	olysi	1-	
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	a,w−di	promot	olysi	1-	
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	a,w−di	promot	olysi	1-	
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	a,w−di	promot	olysi	10-	
xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	a,w−di	promot	olysi	10-	
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xanes with	n 3 and 4 t	Bilico	atoms	ons, one of line produ . Orig. a	can obtain act (III), art. has:	2 tab	les.	a,w−di	promot	olysi	1-	

L 16125-66 F	WI(m)/EWP(1) JW/JWD/RM
	SOURCE CODE: UR/0020/66/167/003/0571/0574
AUTHOR: And	rianov, K. A. (Academician); Sidorov, V. I.; Khananashvili I. M. 49
ORG: Moscow	Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovskiy
TITLE: The nit	rosochlorination of alkenylmethylsiloxanes
	SSR: Doklady, v. 167, no.,3, 1966, 571-574
TOPIC TAGS: 1	reaction mechanism, chemical reaction, siloxane, chlorination, organic
ABSTRACT: Th 3-vinyl-heptame showed that in th	e authors analyze the addition of nitrosyl chloride to olefins on the example of thyl-trisiloxane (I) and allyl-pentamethyl-disiloxane. (II). The experiments ole reaction course is
Card 1/2	UDC: 547.128
Constructions (Constructions)	

ACC NR: AP6015645	P(j)/T DJ/RM  (A) SOURCE CODE: UR	7/0/17/55/1007/550
		R/0413/66/000/009/0055/0055
INVENTOR: Andrianov, Sigarev, A. M.; Khanan	K. A.; Vasil'yev, Yu. N.; Vorob'ye	v, Yu. F.; Kolesníkov, S. A.;
ORG: none	W	39
TITLE: Antifriction 1	ubricant. Class 23, No. 181222	O ·
SOURCE: Izobreteniya,	promyshlennyye obraztsy, tovarnyye	e znaki, no. 9, 1966, 55
TOPIC TAGS: molybdenum	m disulfide, solid lubricant, silic	cone lubricant
include petroleum coke	ertificate has been issued for an and To improve its quality, the lub, and polymethylphenylsiloxane and	polyaluminophenylsiloxane (SM)
COD CODE: 117 SUBM DA	ATE: O6Har65/ ATD PRESS: 4256	-
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	UDC: 621,893	2
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Card 1/1 F/		

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EMADATATIVILI, ". II.

"Differentiation of Positive Conditioned Irritations Brinfereed by Uniform Unconditioned Alimentary Reflexes." Cond Med Set, Inst of Experimental Medicine, Acad Med Set, Leningrad, 1954. (RBBBiol, No 1, Jan 35)

Survey of Scientific and Technical Discentifican Defended at USUR Wigher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

## KHANANASHVILI, M.M.

Differentiation of positive conditioned stimuli reinforced by homogenous unconditioned irritation. Zhur.vyssh.nerv.deiat. 5 no.4:565-573 Jl-Ag '55. (MLRA 8:11)

1. Fixiologicheskiy otdel im. I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR.

(REFLEX, CONDITIONED,

differentiation of basic stimuli reinforced with homogenous unconditioned factors)

KHANANASHVILI, M. M.

USSR/Ruman and Animal Physiology. The Nervous System.

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27432.

Author : M.M. Khananashvili.
Inst : The Institute of Experimental Medicine of the

Academy of Medical Sciences of the USSR

Title : New Data on the Differentiation of Conditioned

Special Stimuli

Orig Pub: Yezhegodnik. In-t eksperim. med. Akad. med. nauk

SSSR, 1955, Leningrad, 1956, 36-40.

Abstract: A conditioned response to  $M_{1/2}\theta$  was established in a dog in association with feeding reinforce-

ment under conditions in which the animal was free to move about a room, the floor of which was divided into squares. The M120 was included

: 1/2 Card

# KHANANASHVILI, M.M.

Participation of the inhibitory process in differentiation of basic conditioned stimuli. Zhur.vys.nerv. deiat. 6 no.3:433-437 My-Je 156.

1. Fiziologicheskiy otdel im. I.P.Pavlova IEN AMN SSSR.

(REFLEX, CONDITIONED,
inhib. processes in differentiation of basic stimuli
(Rus))

KUPALOV, P.S., KHAHANISHVILI, M.M.

Complex motor reactions to inhibiting stimuli [with summary in English]. Zhur.vys.nerv.deiat. 8 no.5:629-636 8-0 '58 (MIRA 12:1)

1. Fisiologicheskiy otdel im. I.P. Pavlova Instituta eksperimental' noy meditsiny AMM SSSR.

(REFLEX, CONDITIONED, complex motor reactions to inhib. stimuli (Rus))

(MOVEMENTS, same (Rus))

# KHANANASHVILI, M.M.

Correlation between the cortical segments of the visual and motor analysors following interruption of association connections of the neocortex. Fiziol.shur. 44 no.10:615-921 0:58 (MIRA 12:1)

1. From I.P. Pavlov's physiological laboratory, Institute of Experimental Medicine, Leningrad.

(CEMEBRAL CORTEX, physiol.

eff. of interruption of neocortical connections on cortical ends of visual & motor analyzers (Rus))

不可能可能的 的复数医内部 (A)

BIRYUKOV, D.A., otv. red.; ABULADZE, K.S., red.; DANILOV, I.V., red.; KUDRYAVTSEVA, N.N., red.; KOSTENETSKAYA, N.A., red.; LAPINA, I.A., red.; MURAV'YEVA, N.P., red.; KHANANASHVILI, M.M., red.; ZIMKINA, A.M., red.; KHARASH, G.A., tekhn. red.

[Some problems of modern physiology; a collection of papers dedicated to the 70th birthday and 45th anniversary of the scientific activity of the Honored Scientist, Professor Petr Stepanovich Kupalov, member of the Academy of Medical Sciences of the U.S.S.R.]Nekstorye voprosy sovremennoi fiziologii; sbornik, posviashchennyi 70-letiiu so dnia rozhdeniia i 45-letiiu nauchnoi deiatel'nosti deistvitel'nogo chlena AMN SSSR zasluzhennogo deiatelia nauki professora Petra Stepanovicha Kupalova. Leningrad, Medgiz, 1959. 262 p. (MIRA 15:8)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (for Biryukov, Abuladze).

(KUPALOV, PETR STEPANOVICH, 1889?-)

(PHYSIOLOGY)

KUPALOV, P.S.; KHANANASHVILI, M.M.

Differentiation of spatial conditioned stimuli. Zhur. vys. nerv. deiat. 10 no. 3:305-312 My-Je '60. (MIRA 14:2)

1. Pavlov Physiology Department, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad. (CONDITIONED RESPONSE) (SPACE PERCEPTION)

# KHANANASHVILI, M.M.

Differentiation of close positive conditioned stimuli. Zhur.vys. nerv.deiat. 10 no.6:874-879 N-D '60. (MIRA 14:1)

1. Fiziologicheskiy otdel im. I.P.Pavlova Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.
(CONDITIONED RESPONSE)

#### "APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721720019-2

KHANANASHVILI M.M.

Mode of action of aminazine on the higher nervous activity.
Farm.i toks. 23 no.4:295-299 Jl-Ag '60. (MIRA 14:3)

1. Fiziologicheskiy otdel imeni I.P.Pavlova (zav. - deystvitel'nyy chlen AMN SSSR prof. P.S.Kupalov) Instituta eksperimental'noy meditsiny AMN SSSR.

(CHLORPROMAZINE) (CONDITIONED RESPONSE)

## KHANANASHVILI, M.M.

Role of the lateral geniculate body in performance of visual function. Fiziol.zhur. 46 no.2:156-160 F '60. (MIRA 14:5)

1. From I.P.Pavlov' Department of Physiology, Institute of Experimental Medicine, Leningrad.
(OPTIC THALAMUS) (VISION)

#### KHANANASHVILI, M.M.

Operation for excluding the function of the cerebral hemispheres. Fiziol.zhur. 47 no.5:661-662 My '61. (MIRA 14:5)

1. Fiziologicheskiy otdel imeni I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(BRAIN—SURGERY)

"Atlas of the brain in the dog" by 0.S.Adrianov, T.A.Mering,
Reviced by M.M.Khananashvili. Fiziol. zbur. 47 no.9:1212-1213
S '61.

(DOGS-ANATOMY)
(ADRIANOV, 0.S.)
(BRAIN)
(MERING, T.A.)

KHANANASHVILI, Mikhail Mikhaylovich; VASIL YEVA, Z.A., red.; EUCROVA, T.I., tekhn.red.

and a comparison of a series of a series of the series of

[Experimental and of the central mechanisms of the visual function] Eksperimental noe issledovanie tsentral nykh mekhanizmov zritel noi funktsii. Leningrad, Medgiz, 1962.

179 p. (MIRA 15:5)

(PRAIN—LOCALIZATION OF FUNCTIONS)

KHANANASHVILI, M.M.; VCLKOVA, V.D.

Method for the long-term implantation of cannulae into the brain of animals. Fiziol.zhur. 48 no.61762-764 Je '62. (MIRA 15:8)

1. Fiziologicheskiy otdel imeni I.P.Pavlova Instituta eksperimental - noy meditsiny, Leningrad.

(ERAIN-SURSERY)

VOLKOVA, V.D.; KHANANASHVILI, M.M.

Some data on the effect of aminazine on complex conditioned reflex activity of animals following its direct introduction into different segments of the brain. Biul. eksp. biol. i med. 54 no.9:65-68 S '62. (MIRA 17:9)

1. Iz fiziologicheskogo otdela imeni Pavlova (zav.- deystvitel'nyy chlen AMN SSSR P.S. Kupalov) Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Predstavleno deystvitel'nym chlenom AMN SSSR P.S. Kupalovym.

FRAHANAGUVILT, P. P.

Dissertation defended at the Institute of Physiology ireni I. P. Pavlov for the academic degree of Doctor of Fedical Sciences:

"Experimental Investigations of the Central Lecharism of the Visual Function."

Vestnik Akad Mauk, Mo. 4, 1963, pp. 119-145

# KHANANASHVILI, M.M.

Associative connections of the visual analysor nucleus of the cerebral cortex. Biul. eksp. biol. i med. 56 no.11:116-119 0 [i.e. N] '63. (MIRA 17:11)

l. Iz fiziologicheskogo otdela imeni Pavlova (zav. - deystvitel'nyy chlen AMN SSSR P.S. Kupalov) Instituta eksperimental'noy meditsiny (dir. - daystvitel'nyy chlen AMN SSSR D.A. Biryukov) AMN SSSR, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR P.S. Kupalovym.

KUPALOV, Petr Stepanovich [deceased]; VOYEVODINA, Ol'ga Nikolayevna; VOLKOVA, Valentina Dmitriyevna; MALYUKOVA, Irina Vasil'yevna; SELIVANOVA. Al'bina Timofeyevna; SYREISKIY, Valeri Ivenovich; KHANANASHVILI, Mikhail Mikhaylovich; SHICHKO, Gennadiy Ardreyevich; BERKENELIT, Z.M., red.

[Situational conditioned reflexes in normal dogs and in pathology] Situatsionrye uslovnye refleksy u sobak v norme i patologii. Leningrad, Meditsina, 1964. 274 p.

(MI:A 17:8)

KHANANAGEVILI, M.M., MA.Y.KOVA, I.V.

the maternity and labor in higher mammals. Thur. vys. nerv. deint. 14 no.3:498-502 My-Je \*64. (MISA 17:11)

1. Paylor Physiology Department, Institute of Experimental Medicine, U.J. R. Acidemy of Medical Sciences, Leningrad.

#### 

Orienting reflex and the first conditioned motor response. Zhur. vys. nerv. deiat. 15 no.2:303-310 Mr-Ap 165.

1. Fiziologicheskiy otdel imeni I.P. Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

# KHANANASHVILI, M.M.

Structural principles in the development of conditioned reflexes to visual and sound stimuli. Vest. AMN SSSR 19 no.6:27-35 '64.

(MIRA 18:4)

1. Institut eksperimental noy meditsiny AMN SSSR, Leningrad.

# KHANANASHVILI, M.M. Differentiation of acoustic conditioned stimuli by the criterion

of the time of intensity rise and the significance of the temporal region of the cerebral cortex in this function. Thur. vys. nerv. deiat. 15 no.5:788-795 S-0 '65. (MIRA 18:11)

1. Fiziologicheskiy otdel im. I.P. Pavlova Instituta eksperimental'noy meditsiny AMN SSSR.

#### KHANANASHVILI, M.M.

Electric activity of neuron-isolated neocortex in a chronic experiment. Fiziol. zhur. 51 no.1:19-26 Ja 165. (MIRA 18:7)

1. Fiziologicheskiy otdel imeni Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

EMANAGENY, L. I., Cand Los Sci -- (diss) "Flasticity of arteries of the pancross and functions its incretory apparatus in the collaboral blood circulation (anatomo-functional research)," Chermovtsy, 1960,

19 pp (Chermovtsy State Medical Institute) (KL, 36-60, 119)

KHANANAYEV, L.I. (g. Stanislav, ul. Gastello, 24, kv.1)

Plasticity of the collaterals and functional evaluation of the increatory apparatus of the pancreas in experimental conditions.

Arkh, anat, gist, i embr. 37 no.11:96-102 N 59. (MIRA 13:4)

1. Kafedra normal'noy anatomii (zaveduyushchiy - prof. Ye.P. Mel'-man) Stanislavskogo meditsinskogo instituta.

(PANCREAS blood supply)

#### KHANANAYEV, L.T.

Dynamics of functional changes in the insular apparatus of the pancreas after experimental ligation of its vessels. Probl. endok. i gorm. 6 no. 4:17-23 J1-Ag '60. (MIRA 14:1) (PANCREAS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

# KARPLYUK, Z.V.; KHANANAYEV. L.I. [Khananaiev, L.I.]

Trace element (zinc, copper) and sugar content of blood in dogs following ligation of the three main arteries of the pancreas.
Ukr.biokhim.zhur. 32 no.2:283-290 60. (MTRA 13:11)

1. Department of Biochemistry of the Stanislav Medical Institute.

(PANCREAS-BLOOD SUPPLY)

(BLOOD SUGAR)

(TRACES ELEMENTS)

KHAMANAYEV, I.i. (Ivenc-Frankovsk, vi. Gastelle, 24, 10.1)

Effect of the extirpation of individual components of the solar places on the development of collateral circulation of the pancreas. Arkh.anat., gist. i embr. 47 no.10/29-55 0 144.

1. Kafedra normal'noy anatonii (220.0 prof. Ye.F.Mel'man) Ivano-Frankovskogo meditainskogo inatituts.

MELIMAN, Ye.P.; KARPLYUK, Z.V.; KLIPICH, V.I., KOTORBASH, T.V., ABRINANAYEV, L.I.

Projectiveness of revascularization of the testia by the directed change of their blood supply; experimental study. Urologite. 29 no.3:16-21 My-Je '64. (SIRA 18.10)

1. Kafedra anatomii (zav.- prof. Ye.P. Mal'man), goapital'maya khirurgicheskaya klinika (zav.- prof. S.A. Verkhratskiy), kafedia biokhimii (zav.- doktor med. nauk G.A. Fabenko) i kafedra topograficheskoy anatomii s operativnoy khirurgiyey (zav.- prof. L.A. Nikol'skaya) Ivano-Frankovskogo meditsinakego instituta.

	L 45144-66 EVT(d)/EWT(m)/EWP(v)/EWF(k)/EWP(h)/EWP(t)/ETI/EWF(1) IJP(c)  ACC NR: AR6027560 JD/JG SOURCE CODE: UR/0272/66/000/005/0066/0066  AUTHOR: Khananayev, V. G.
	TITLE: A screw-cutting machine  SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 5.32.474
	REF SOURCE: Chasy, chas. mekhanizmy, no. 6, 1965, 15
	TOPIC TAGS: screw machine, lathe/NT-139 screw machine  ABSTRACT: The paper concerns a NT-139 screw machine manufactured and introduced into production at the Minsk Watch Plant for cutting threads into eight and four apertures of "Luch" platinum watches (M 0.7 x 0.175 and M 0.6 x 0.15). A kinematic diagram of the lathe is given and the principles of its operation described. The output is 4500 components per shift. The lathe is easy to adjust as well as to [FM]  SUB CODE: 13, 14/ SUBM DATE: none/
	Cord 1/1 augn UDC: 681.11.05
2012.1	

SBRIZHER, G.I.; KHANANAYEV, V.G.

Automatic machining of the plates of "Zaria" watches.

Priborostroenie no.11:23-24 N '62. (MIRA 15:12)

(Clockmaking and watchmaking—Machinery)

KHANANINA, N. B.

Occupational Diseases

Dissertation "Clinical and Madical Treatment of Lymphogranulomatosis." Cand Med Sci, Second Moscow State Medical Inst imeni I.V. Stalin, 22 Mar 54. (Middtsinskiy Rabotnik, Moscow, 13 Mar 54).

JO: JUM 213, 20 sep 54.

PAUAKHIN, T., inch.-tekhnolog (g.Dverdrevek); kladel, L., inch. (g.leningrad, nab.Kutuzeva, d.12, kv.10); Ed. Shire, V. L. (g.Leningrad); ELSKURNIKOV, A.; KHANANOV, A., inch.

Advertising board. Izobr.i : . . no.6:56-57 Je '60. (MPA 14:2)

1. Zamostitel' predsedatelya Moskovakogo obshakestva kinolyabitoley (for Baskurnikov). 2. 207 ucharaka avtobase Moslo, g. Bodin (for Kramanov).

(Technological Autovations)

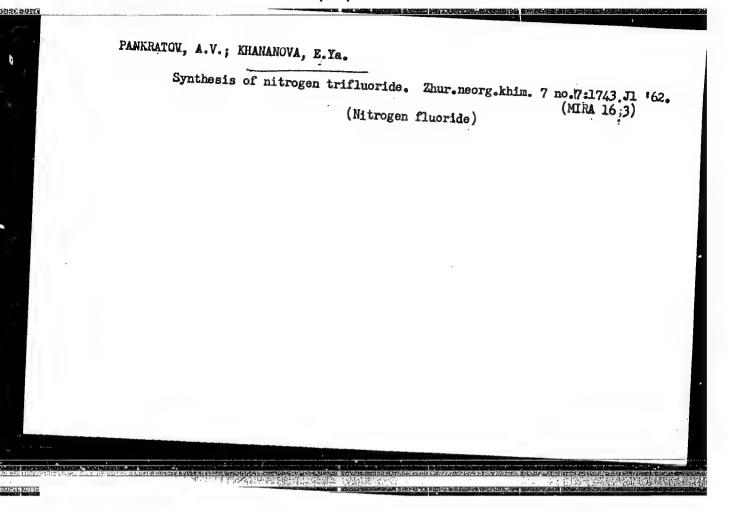
BABAYEVA, A.V.; KHANANOVA, E. Ya.

Complex compounds of Pd (IV). Dokl. AN SSSR 159 no.3:586-587 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I. Chernyayevym.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

海洋高區圖灣湖區圖灣湖 建数流点



BABAYEVA, A.V.; KHANANOVA, E.Ya.

Compounds of PdIV tetramine type. Zhur.neorg.khim. 10 no.11:2579-2581 N '65. (MIPA 18:12)

1. Institut obshchey 1 neorganicheskoy khimii imeni N.J. Kurnakova AN SSSR. Submitted June 17, 1965.

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Ethylenediamine complexes of tetravalent palladium of the tetramine type. Ehur.neorg.khim. 10 no.12:2653-2656 D \*65. (MIRA 19:1)

AVTOKRATOVA, T.D.; AHDRIAHOVA, O.N.; BABAYEVA, A.V.; BELOVA, V.I.;

GOLOVNYA, V.A.; DERBISHER, G.V.; MAYOROVA, A.G.; MURAVEYSKAYA,
G.S.; NAZAROVA, L.A.; NOVOZHENYUK, Z.M.; ORLOVA, V.S.; USHAKOVA,
N.I.; FEDOROV, I.A.; FILIMONOVA, V.N.; SHENDERETSKAYA, Ye.V.;

SHUBOCHKINA, Ye.F.; KHANANOVA, E.Ya.; CHERNYAYEV, I.I., akademik,
otv. red.

[Synthesis of complex compounds of platinum group metals; a handbook] Sintez kompleksnykh soedinenii metallov platinovoi gruppy; spravochnik. Moskva, Izd-vo "Nauka," 1964. 338 p.

(MIRA 17:5)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii. 2. Institut obshchey i neorganicheskoy khimii AN SSSR (for all except Chernyayev).

BABAYUVI, M.Y.; LHAMANOVA, E.Ya.

Othy Penediamine complexes of tetravalent palladium of the tetramine type. Poki. AN SESR 164 no.44807-808 0 %65.

1. Institut obshchey i neorganicheskov khimii im. N.S. Kurnakova AN SSER. Submitted May 28, 1965.

KHHNANYAN, M.M.

Subject : USSR/Engineering

Card : 1/2

Authors : Rubachev, G. N., Lodzhevskiy, L. G. and Khananyan, M. M.

Title : Study, coordination, and dissemination of advanced methods of work on underground repair of oil wells

Periodical: Neft. Khoz., v. 32, #4, 1-4, Ap 1954

Abstract : The author describes the study and development of

rational methods for underground repair work in oil wells as performed by the Central Scientific Research Institute for Mechanization and Organization of Labor in the Petroleum Industry (TsIMTNeft) and its branches. The experience and initiative of advanced brigades, shifts and individual innovators is considered in the promotion of the new methods for repair of oil wells. Essential material, tools and machines are assembled in regional oil fields for special crews trained in photochronometric methods of operation in accordance with a

AID P - 275

pre-planned schedule. The perfected method of repair work with Molchanov's automatic mechanism is specially

RUBACHEV, Georgiy Nikolayevich; FATKULLIN, Mukhtar Khurmatovich; KHANANYAN, Helik Maiorovich; PLYUSNINA, Ol'ga Pavlovna; KOVALEVA, A.A., redaktor; POLOSIHA, A.S., tekhnicheskiy redaktor.

[Advanced practice in using submerged electric pumps] Peredovoi opyt primeneniia pogruzhnykh elektronesosov. Moskva, Gos.nsucho-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 52 p. (MLRA 9:4) (Petroleum--Pumping)

PANAKHOV, Mureddin Akper ogly; KHANANYAN, Melik Makarovich; KOVALEVA,
A.A., redaktor; ERDENTO, V.S., tekhnicheskiy redaktor

[Experience in drilling and operating multiple wells] Opyt
bureniia i ekspluatatsii mnogoriadnykh skvazhin. Moskva, Gos.
nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956.

48 p. (Oil well drilling)

KERNAPETON, MY.

AUTHOR:

Khanapetov, M.V., Engineer

135-12-14/17

TITLE:

Welding Engineering in the All-Union Industrial Exhibition 1957 (Svarochnaya tekhnika na Vsesoyuznoy promyshlennoy vystavke 1957 R.)

PERIODICAL: Svarochnoye Proizvodstvo, 1957, # 12, p 38-44 (USSR)

ABSTRACT:

The article is an illustrated review of the new Soviet welding equipment shown during the industrial exhibition 1957. The following devices and materials were shown in illustrations and/ or described in some detail in the review. The All-Union Scientific Research Institute for Welding Equipment (Vsesoyuznyy nauchnoissledovatel'skiy institut svarochnogo oborudovaniya, VNIIESO) demonstrated the cold welding machine "MCXA-50" (Figure 1) for reinforcing aluminum winding lead-outs with copper terminals, joining copper plates to aluminum bus-bars, and for cold spot welding of aluminum up to a thickness of 4+4 mm, with initial pneumatic pressure of 6 atm, welding pressures of 50 tons, and an operating speed of 300 weldings per hour.

The Electrical Engineering Institute of the Ukrainian Academy of Sciences (Institut elektrotekhniki AN USSR) demonstrated manual pliers for butt and overlap cold welding of aluminum

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Welding Engineering in the All-Union Industrial Exhibition 1957

a transaction fitter of

and copper wires, "KC-6" (Figure 2), of 1.5 kg weight, handy in assembling work.

The Scientific Research Institute of the Cable Industry (Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti, NIIKP) showed the "HNNKH-HC-7" device(Figure 3), for cold butt welding of aluminum wires, copper wires, and aluminum wires with copper wires.

The friction welding method is demonstrated in the VNIIESO stand on a friction welding device and high-quality welded joints of brass with steel, brass with cast iron, aluminum with duralumin. etc. are shown.

The Central Scientific Research Laboratory of the USSR Academy of Sciences (Tsentral'naya nauchno-issledovatel'skaya laboratoriya AN SSSR) exhibits the electric spark device "YNP-3m" with a pistol fixture for surfacing tools and other wearing surfaces with wear-resistant alloys, with an accuracy of 0.1 mm thickness. The device may be also used for cutting thin sheet

The ultrasonic soldering device "YII-21" (Figure 4) solders aluminum and aluminum alloys without the use of fluxes, by

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135-12-14/17

Welding Engineering in the All-Union Industrial Exhibition 1957

and alcaline-earth metals (no closer specification given), and which permits welding titanium with standard welding equipment on d.c. of inverse polarity.

The device of the NKMZ (Kramatorsk) for electric slag welding with melting wire-holding tubes (Figure 7, foreground) differs from the usual electric slag welding technology by the use of a so-called technological plate of an outline identical with the outline of the section to be joined (Figure 8). The plate with the attached tubes carrying the welding wire will be inserted into the gap at the joint and melts together with the welding wire and tubes in the rising welding puddle.

The Zhdanovskiy Metallurgical Institute demonstrates a torch (Figure 9) for automatic arc welding thin stainless steel sheets with melting electrodes in CO2, which is simple in design and needs no cooling.

The machine "MC-0.75" (Figure 10) for contact butt welding wires of ferrous and non-ferrous metals and alloys (producer not identified), receives power from a 220 wolt network and makes 9 welds per minute.

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Welding transformer (producer not identified) "BCC-120-1"

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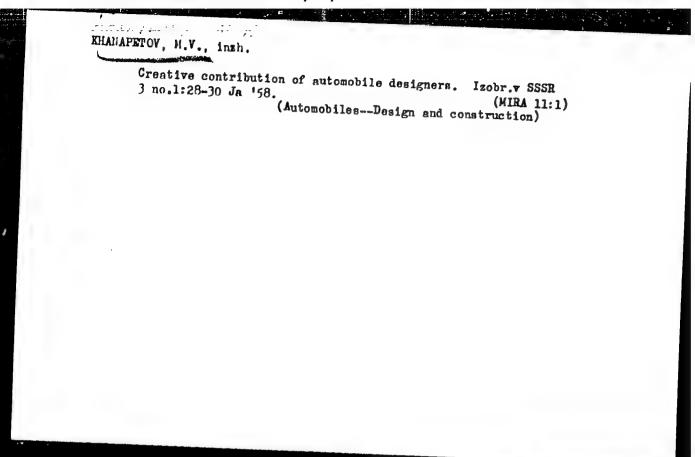
Welding Engineering in the All-Union Industrial Exhibition 1957

(Figure 11), for manual d.c. arc welding thin sheet metal, differs radically from the designs built in USSR thus far. It has no rotating parts and consists of a reducing three-phase transformer, a welding current reactor-adjuster, a rectifier block and a starting-adjusting arrangement, all mounted in one housing. The rectifier block consists of a three-phase bridge circuit of 100 x 400 mm selenium discs of the "ABC" type on an aluminum base. (The characteristic of this transformer is given). The gamma-apparatus "ГУП-CO-50" (Figure 12), unidentified manufacturer, is for laboratory as well as industrial use and works on 220 volt a.c.. Its gamma ray source is Co<sup>60</sup>. Its conical gamma ray beam reaches through 200 to 500 mm steel.

AVAILABLE:

Library of Congress

Card 5/5



The AB-4-T/230 gasoline-powered unified electric plant. Biul.tekh.-ekon.inform. no.6:36-38 '58.

(Electric power plants)

# The DES-30 and DES-50 mobile oliver

## KHANAPETOV, M.V.

The 4724 electric-erosion copying broaching machine. Biul. tekh.-ekon.inform. no.12:30-32 458. (MIRA 11:12) (Electric metal cutting)

#### "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2

Power single-phase three-winding autotransformers. Biul.tekh.-ekon.inform. no.1:36-37 '59. (MIRA 12:2)

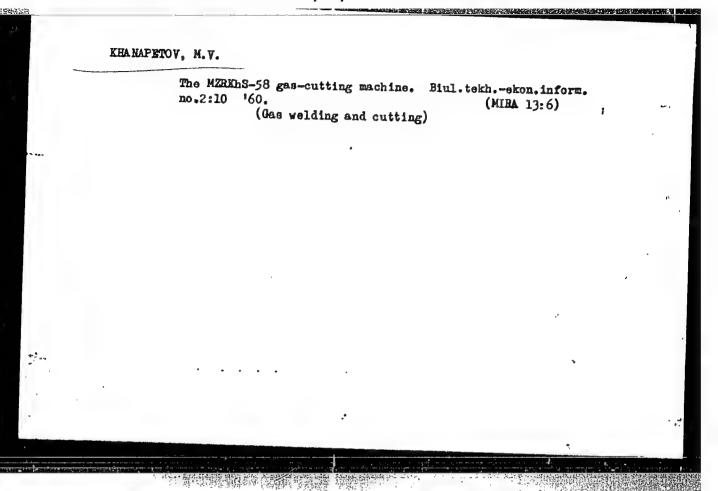
(Electric transformers)

BORISOV, M.A.; KHAMAPETOV, M.V.

The TMG-30 and TMG-30P-type d.c. tachometer generators. Biul.
tekh.-ekon.inform. no.12:32-33 '59. (MIRA 13:4)

(Blectric generators)

#### "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2



25(1)	S/125/60/000/03/015/018 D042/D001
AUTHOR:	Khanapetov. M.V.
TITLE:	Welding Technique, at the 1959 Exhibition of the Achievements of the USSR National Economy
PERIODICAL:	Avtomaticheskaya svarka, 1960, Nr 3, 84-92
ABSTRACT:	The exhibits are listed with brief description of the essential features. The "SDVU-2" welder, for diffusion welding of ceramics, cermets, parts of heat-resistant steel and non-ferrous metals in a vacuum by the N.F. Kazakov method was designed by the Moskovskiy tekhnologicheskiy institut (Moscow Technological Institute) in cooperation with Kombinat tverdykh splavov (Hard Alloys Combine). It consists of a tube generator, a vacuum chamber, a base plate and a hydraulic cylinder and weighs 500 kg without the generator. The Nove-Kramatorskiy zavod im. Stalina (New-Kramatorsk Plant imeni Stalin) exhibited
Card 1/11	a 14-ton electroslag-welded specimen, and the Institut elektro- svarki im. Ye.O. Patona (Institute of Electric Welding imeni

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Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

Ye.O. Paton) the "A-372r" and "A-501" electroslag welders, The "A-372r" is for single-pass welding of various (circular, butt, T, etc.) metal joints of 50 to 600 mm thickness; the "A-501" is a magneto-walking welder for vertical angle joints, T and butt welds up to 100 mm thickness. For cold butt welding of single-wire cables and thick wires the Institut elektrotekhniki AN USSR (Electrical Engineering Institute AS UkrSSR) has developed the "SNS-2" table welder; multicore cables can be joined by connecting single cores in sequence; aluminum 2 wire of 4-25 mm<sup>2</sup> cross section area, copper wires of 4-10 mm as well as copper with aluminum can be joined. The "KS-6" hand tongs are for welding aluminum wires with copper wires. The installation for thermite welding of multiwire high-voltage transmission lines, developed by Tsentralinaya vysokovol'tnaya laboratoriya Mosenergo (Central High-Voltage Laboratory of Mosenergo) collectively with Zavod Mosoblsovnarkhoza (Mosoblsovnarkhoz plant) joins the wires by means of simple

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tongs with thermite cartridges. There are several ultrasonic welding, soldering and tinning devices: The "UZSM-1" spot welder for thin sheet metal in which the welding tool tip presses the sheets together with an effort adjustable between 20 and 100 kg, developed by Nauchno-issledovatel'skiy tekhnologicheskiy institu (Technological Scientific Research Institute); the "UZTM-2" for seam welding, with the same generator and transformer having contact rollers driven by a separate motor and a welding speed of up to 850 mm/min; the "UT-4" spot welder of MVTU-MET, for welding copper and its alloys, stainless steel, aluminum and aluminum alloys, high-melting metals etc. having a thickness of up to 1.5 mm, is used with an "UZG-10" ultrasound generator and makes 20 spot welds in a minute; the "UP-31" device for tinning and soldering aluminum and aluminum alloys with soft solders without flux; the "UZP-3" for tinning and soldering

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aluminum parts with a rate of 1-2 cm /min; the "UP.42" for the same purpose as the two last mentioned devices. Of great interest for welders is a plasma-jet nozzle of the Institut metallurgii im. A.A. Baykova (Metallurgical Institute imeni A.A. Baykov). It has an electrically neutral channel comprised of two electrodes one of which is in the shape of a nozzle and produces an electric discharge ionizing the gas flowing through the nozzle. The bright plasma jet out of the nozzle is 15-20 mm long and has a temperature of 15,000° C. Argon, helium, hydrogen, CO, or other gas can be used. The plasma jet can be used for melting, welding, soldering, cutting metal and other materials, coating different materials, hardening the surface and cleaning. The "AGN-8-26M" welding head (of NIIkhimmash) with a hoseless

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gas feed is designed for welding the butt joints of fixed

stainless steel tubes of 8-25 mm diameter and 1.5-2.0 mm

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wall thickness by use of a non-melting electrode in shielding gas. Unlike the existing ('AGN-8-26", "MS-19" and others) welding heads, argon is fed into the "AGN-8-26M" by a device with immobile and mobile ducts. The semiautomatic "A-547" of the Institute of Electric Welding imeni Ye.O. Paton is for welding thin metal by short seams with a melting electrode in shielding carbon dioxide gas for welding in any position. The "PDPG-300" of VNIIESO is a semi-automatic welder for directcurrent welding by a melting steel electrode in shielding gases. The electrode diameter is 0.8-2 mm, the wire feed is adjustable between 1.5 and 16 m/min, the current 300 amp, 15-40 volt and the gas consumption is 600-1500 liter/hr. VNIIAVTOGEN exhibited new gas-electric cutters which cut, by "penetrating arc", non-ferrous metal and stainless steel up to 40 mm thickness. The "UDR-1-58" for straight cutting on a self-propelled carriage and the "UDR-2-58" for manual

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cutting. The "UDS-58" of the same institute is an arc welder suitable for mechanical as well as manual welding of nonferrous metals by a melting electrode in shielding gas. The knapsack type semi-automatic "PShV-1" for arc welding in shielding gas by a tungsten electrode welds straight and curved seams in any position the nozzle rests on the filler wire in the process which ensures constant arc length. The "PShP-9" is a semi-automatic hose welder for irregular shaped short welds in shielding gas in structural heat-resistant and stainless steel and light alloys. The "ADSP-2", an arc welder for the same metals, is a "welding tractor" working automatically. The "ADSV-2M" is another "tractor" working with a nonmelting electrode and filler wire. The semi-automatic "PGSh-2M", of TsNIITMASh, is for welding by a melting electrode of 1.6-2 mm diameter in CO, with up to 500 amp current and with the wire feed speed controlled by changing the r.p.m. of the motor between 10.8 and 648 m/hr. The

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"UDAR-300" (photo, Figure 1) of the "Elektrik" plant is for manual arc welding of aluminum and aluminum alloys by a nonmelting electrode in argon using a.c. up to 300 amp. The "ADPG-500" welding tractor of VNIIESO is for welding by d.c. in shielding gas by melting steel wire. The following resistance welding machines were demonstrated; the "SHKM-3", a universal capacitor-type seam welder designed by the Institute of Electric Welding AS UkrSSR and the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute) having an electronic control of the capacitors and used for ferrous and nonferrous metal of 0.05 to 0.7 mm thickness: the capacitor-type "MShK-3-2" of VNIIESO for stainless steel and nonferrous metal of 0.03 to 0.2 mm thickness; the "MRK-3" roller welder for seam welding on bellow thermostats and membrane boxes of steel and bronze with welding pulses from a battery of capacitors. The Institute of Electric Welding

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imeni Ye.O. Paton demonstrated a surfacing welder (photo, Figure 2) with a thin metal band for the electrode to ensure a high productivity and even coating layer which moved 4-12 m/hr and coated a layer of 2-8 mm in a single run. The Ural'skiy politekhnicheskiy institut im. S.M. Kirova (The Ural Polytechnical Institute imeni S.M. Kirov) displayed the Automatic vibro-arc "VG-2" welder (Figure 3) for cylindrical and flat work which is suitable for high-alloy steel including high-speed cutting grades, welds in shielding medium of a 4-per cent solution of calcinated soda, or a 10-per cent sodium fluoride or on CO2. The automatic "D-1" of the Ukhtinskiy mekhanicheskiy zavod (Ukhta Mechanical Plant) is designed for vibrational surfacing of steel and cast iron work with steel in a jet of cooling liquid - the welding head is used on a lathe toolpost. The automatic "KUMA-5M" of the Chelyabinskiy zavod im. S. Ordzhonikidze (Chelyabinsk Plant imeni S. Ordzhonikidze) used for pulse-arc surfacing

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of worn machine parts by applying coatings of 0.5 to 3 mm is also used on lathes. The "EM-9" of VNIIAVTOGEN for restoring worn shafts, bushings, etc. can also be used for patching steel and nonferrous castings and for raising the heatresistance of steel. The vibrational welding head of Engineer A.M. Barabanov is for surfacing worn parts with layers of 0.5-2.5 mm. The few devices for welding under flux include the following: the "A-564" of the Institute of Electric Welding imeni Paton, for attaching 4-12 mm diameter stude by welding with special flux rings in a vertical and overhead position it attaches a stud in 1,2 - 3 sec. and weighs 2.2 kg; and the "UT-1250-3" welding tractor of TanlITMASh which automatically welds butt and angle welds. The gas cutter "MZRKhS-58" (Figure 4) of the Kherson Sovnarkhoz, weighing 25 kg, is designed for trimming the edges of round parts and can replace a turret lathe for trimming parts of 600 to

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3,000 mm diameter and 5-100 mm thickness and an electromagnet of 100 kg pulling force is placed in the machine base to hold it in a vertical position. N.M. Kudryavtsev's machine (Figure 5) is a gas cutter for pipes of 57-529 mm diameter and 1-12 m length - it can cut straight and with different bevel angles and can cut out apertures in pipe walls; it is driven by an a.c. 0.6 kw motor and has a "bevel variator", a worm gear reductor and a pair of spur gears. The "dry" acetylene genera. tor "ASR-1-56" (Figure 6), of VNIIAVTOGEN, gives dry powdery waste line and has a work capacity of 20 m3/hr - 80 kg of carbide are charged at a time. The "VSS-300-2" welding rectifier, of VNIIESO, is for manual d.c. arc welding with current from an a.c. network and has aluminum transformer windings plus an automatic overheating switch. The single-pole "TSK-300" transformer (Figure 7) is for use in mant ' arc welding, cutting and surfacing, and has a capacitor in arallel with the primary winding to raise the power factor (the mean

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value of power factor is 0.93). The mobile "STN-500-1" transformer of the Vil'nyusskiy zavod elektrosvarochnogo oborudovaniya
(Vilnus Electric Welding Equipment Plant) is for manual cutting and welding. The "IST-1M" instrument of the Ufimskiy zavod
(The Ufa Plant) measures the current flowing through parts being welded on registance welding machines. The "IDTs-1" ultrasonic —
defectoscope of TsnIITMASh reveals defects in metal parts in
disc form with a central bore - the results are mechanically
recorded and visually observed on indicators. The magnetic
"MPD-1" mobile defectoscope (also TsnIITMASh) tests large metal
parts by magnetic powder and is fitted with a portable pump.

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S/193/60/000/005/004/012 A004/A001

AUTHOR:

Khanapetov, M.V.

· 竹/珍/整建生型加加卡尔奖

TITLE:

The Ultrasonic Y3CM-1 (UZSM-1) and Y3CM 2 (UZSM-2) Welding

Machines

PERIODICAL:

Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 5, pp.

TEXT: The Nauchno-issledovatel'skiy tekhnologicheskiy institut (Scientific Research Institute of Technology) NITI in 1959 developed the UZSM-1 and UZSM-2 machines for the ultrasonic spot and seam welding of sheet metals. The operation principle of the machines is based on the conversion of high-frequency electric oscillations into horizontal mechanical oscillations of high frequency. The main part of the machines is the magnetostriction conveter of the NMC-15 (PMS-15) type, which in the UZSM-1 machine is fed from the serial Y31-10 (UZG-10) or Y31 --2,5 (UZG-2,5) generators. In the UZSM-1 machine, devised for spot welding, the oscillations of the converter are transmitted through a waveguide to the upper cap fastened to the tool tip. The tool is detachable to enable it being replaced when the cap is worn or if it is necessary to produce welding spots of another size. The magnetostriction converter and, during protracted operation, also the tool with

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The Ultraspnic \( \frac{1}{3}CM -1 \) (UZSM-1) and \( \frac{1}{3}CM -2 \) (UZSM-2) Welding Machine

cap and conductor are water-cooled. During operation the workpieces are clamped with the aid of an pneumatic device, the compressive force of which can be regulated by changing the air pressure. The duration of the welding process is set with the aid of a time relay. For the preliminary setting of the welding time the machine has two scales, one for rough setting with an accuracy up to 1 second, the second scale for a smoother control with an accuracy of up to 0.1 second. Copper, aluminum and its alloys, stainless steel, high-melting and other metals can be welded on the UZSM-1 welder. Also different metals can be welded together, e.g. aluminum to copper, copper to stainless steel etc. The ultrasonic UZSM-2 welding machine has been devised for the seam welding of sheet metals. It has the same magnetostriction converter as the UZSM-1 machine. The welding tool has an upper cap in the form of a roller, while a lower roller is fastened to the bracket. The welding speed is adjusted on a scale placed on the front side of the machine. In contrast to the spot-welding machine, the magnetostriction converter of the UZSM-2 machine rotates together with the welding tool. The cooling water is supplied from the mains to the converter through a connecting joint. The workpieces are clamped after a foot pedal has been pressed. To guide the components properly during the welding process, a small table with bedways is fastened on the level of the upper Card 2/3

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The Ultrasonic 33(M -1 (UZSM-1) and 93(M -2 (UZSM-2) Welding Machine

edge of the lower welding roller. The bedways can be adjusted according to the width of the sheets being welded. The machine is supplied from a UZG-10 or UZG-2,5 generator with a power consumption of 5 kw and a power output of 2.5 kw. The following technical data are given concerning both the UZSM-1 and UZSM-2 models (data of the latter in brackets): power of magnetostriction converter, kw - 2.5-motor, kw - -- (0.12); clamping stress, kg - minimum - 20 (20), maximum = 100 (140); maximum distance of spot or seam from the sheet edge (tool sweep), mm - (75), maximum - (850); thickness of sheet being welded - 1.5 (1.5); water consumption, 1/min - 3 (-); air consumption, m/min - 0.003 (-); overall dimensions (length x width x height), mm - 670 x 430 x 1,250 (950 x 490 x 1,320);

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AUTHOR:

Khanapetov, M. V.

TITLE 3

All-Union Scientific-Technical Conference on the Use of

Semiconductor Power Rectifiers

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 5, pp. 94-95

Information is given on a conference held in November 1959 in Moscow, on the use of semiconductor rectifiers in transportation and at industrial works, including welding. I. Salynskiy, in his report "Semi-conductor (selenium) Rectifiers For Welding Machines" treated the problems of the selection of selenium cells, their calculation, design and the test of rectifier units; he outlined the advantages thereof, compared to the rotary converters (higher efficiency, economy of nonferrous metals, reduced dimensions and current losses). The Soviet industry produces now semiconductor rectifiers applicable for welding transformers - silicon, germanium and selenium diodes. The silicon and germanium rectifiers ar highly efficient, but only few are-produced yet and they are expensive. but the production of selenium rectifiers has been improved considerably. Cells with 60-80 volt reverse voltage are under development; the load

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All-Union Scientific-Technical Conference on the Use of Semiconductor Power Rectifiers

currents of cells under development and already produced is raised three and even five times. Thallium elements have considerable advantages except for their life, though it appears that it can be extended. In view of this thallium elements of 100x400 mm size were accepted for development. A selenium unit of such elements has one third of the elements of a normal rectifier, it is 2.6 times smaller, 2.9 times lighter, and 50% cheaper. They can be recommended for use in welding transformers for 120 and 300 amp. Converters with saturation chokes and mobile coil transformers have been tested, and the converters with coils ("VSS-120-3" and "VSS-300-2") proved considerably better from the technical and economical point of view. B. V. Strogov reported on "Experience in Making and Using Selenium Rectifiers" and described a selenium rectifier with saturation choke for welding purposes. M. M. Smirnov informed on production and application of semiconductors at the Avtozavod im. I. A. Likhacheva (Automobile Plant imeni I. A. Likhachev), where a new converter, "SP-300" is being developed for 200 kva. The secondary windings of the transformer and the choke are put together; current is adjustable between 300 and 30 amp, idle un voltage is 72. Negative feedback gives an abrupt external Card 2/4

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All-Union Scientific-Technical Conference on the Use of Semiconductor Power Rectifiers

characteristic (the ration of short-circuit current to welding current is 1.2). For better protection from corrosive medium and better cooling of selenium plates, the rectifier unit was placed into a container with transformer oil. The plates are "TBS-100", 288 in all, with two plates connected in series and 24 parallel in every arm. The electromechanical shop of the plant has completed 12 such converters. Besides, the welding laboratory of the Automobile Plant produced a welder, "BG-50", with semiconductor rectifiers. It includes a welding transformer of "ST-2" type and a "REST-2" choke; the germanium diode was cooled by water and the permissible current could be raised to 200 amp. It was stated in comparison tests with the machine converter "PS-300" that even with so imperfect a system the machine with germanium rectifiers had still 67.5% efficiency compared to only 41% of the machine converter. After eight months of  $\mathbf{u}_{\mathbb{S}^{+}}$ the unit with germanium rectifiers had to be stopped because of clogged pipes in the water cooling system. An analogous machine is completed hy now with a protection without water cooling. V. P. Kamenskaya treated methods for a determination of overload capacity of rectifiers and other

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3/118/60/000/007/003/004 A161/A029

18-7200 AUTHOR:

Khanapetov, M. V., Engineer

TITLE:

Introducing Modern Welding Engineering Into the National

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 7,

TEXT: New welding equipment listed in the article will be demonstrated in July and August 1960 at the exhibition of achievements of the national economy of the USSR. Welding manipulator "YCM-500" (USM-500) of 500 kg lifting capacity is applicable at many USSR plants; manipulators, or positioners, for heavier work will be "CH-10007" (SM-1000P) with a pneumatic drive lifting up to 1,000 kg, universal "CM-1000" (SM-1000) hand-driven positioner; universal "YCM-1200" (USM-1200) manipulator; universal "CM-5000" (SM-5000) positioner for 5,000 kg. The new plasma jet cutting method will be demonstrated, permitting the cutting of all known materials including materials of highest heat resistance, stainless steel, ceramics. The plasma method is also applicable to welding and spraying. Installations

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Introducing Modern Welding Engineering Into the National Economy

will be shown for plating with heat-resistant metals, for welding by plasma arc, for automatic and manual cutting by plasma jet, and for straight-line cutting of sheets. Specialists will see a special electron-ray welding installation for active metals, and an analogous electric system; A "BYAC" (VUAS) welder for welding active metals in controlled atmosphere and an "YCKB" (USKV) for roller welding in vacuum. Machines for ultrasound welding will include an "Y3CM-1" (UZSM-1) for ultrasound spot welding; an "Y3CA-2" (UZSA-2) for ultrasound seam welding; a transportable "Y3CA-3" (UZSA-3) welder; an "/37" (UZT) spot welder; an "/3W" (UZSh) with roller contacts; "Y3(NM" (UZSPM) for welding polymers. The cold butt welding machines "MCXC-35" (MSKhS-35) and "MCXC-5" (MSKhS-5) can weld aluminum to copper, aluminum to aluminum, and copper to copper. The "MCT-34 (MST-34) friction butt welding machine with pneumo-hydraulic grips and pushbutton control is an automatic machine for large steel and alloy parts. Besides, there will be equipment for diffusion welding in vacuum; for making flexible hose by roller welding; for welding aluminum alloys of high thickness; for sheets less than 0.2 mm thick; for welding thin sheet structures by pulsating arc; for argon arc welding by fusing electrodes on immobile butt

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Introducing Modern Welding Engineering Into the National Economy

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joints of aluminum alloy gas line pipes; for welding with rotating arc in magnetic field. Standardized units for combinations into different special welding devices will include a standardized "AFB" (AGV) welding head for tungsten electrode, automatic "ΑΔ(B-2" (ADSV-2) and "ΑΔ(F-2" (ADSP-2) "welding tractors" composed from standardized units and designed for welding with tungsten and with fusing electrode, and universal'AДСПВ-2"(ADSPV-2) automatic "tractor", also of standard units. Welding techniques will be demonstrated. The welding of plastics and spraying of plastics on surfaces will also be shown. In the section of resistance and arc welding there will be new automatic equipment. A 'MWWW-400" (MShShI-400) machine for seam welding of light alloys will be shown in operation. Different welding process watching devices will be exhibited, among them an "PTC-1" (RTS-1) current recorder, an "ACT-2" (AST-2) for measuring current in single-phase welding machines and making possible the watching of the major parameter in resistance welding process; a "PBC-1" (RVS-1) time recorder recording the time of the current passage in resistance welding. One gas cutting semi-automatic is expected to arouse much interest, it is designed for cutting complex lines, eliminates the use of templates, gives a clean cut, ensures tight pipe joints, and reduces 8 times the cutting time comparing Card 3/4

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AUTHOR:

Khanapetov. M.V., Engineer

TITLE:

An Exhibition of Welding Techniques

PERIODICAL: Vestnik elektropromyshlennosti, 1960, No.10, pp.62-65

The Engineering Pavilion of the Exhibition of Achievements of the National Economy contains an exhibition of modern welding technique; this note mentions the main exhibits. Resistance butt-welding machine type MPC-50 (MSR-50) of 50 kW is used for sections up to 800 mm<sup>2</sup>. The travel of the moving tip is 30 mm and the maximum distance between tips 100 mm. machine producing pipes of from 0.5" to 1.25" is shown. A pipe-welding Machine type MTHII-75 (MTPP-75) will spot-weld parts of low-carbon steel 0.5 to 1.5 mm thick. The machine cycle is governed by an electronic time controller type PB3-7 (RVE-7). The machine also steel 0.5 to 1.5 mm thick. has an asynchronous ignitron contactor type KNA-50 (KIA-50). output of the machine is 60 to 120 spots per minute. type MCMY-150 (MSMU-150) carries out butt-welding on low-carbon steel parts of 1000 mm<sup>2</sup> section. The machine can make 80 welds per hour, the power is 150 kVA and the compressive pressure is up

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An Exhibition of Welding Techniques

to 6500 kg. Machine MCM-150 (MSM-150) uses a continuous melting method to produce butt-welded tubes for refrigerator coils. Control mechanisms are particularly important. Welding-current recorder type PTC-1 (RTS-1) records and measures the welding current and power in the circuit; the sensitive element is a germanium Hall-effect pick-up. Time controller type PUC -1 (RTsS-1) provides universal sequence and time control for the automatic cycle of a resistance welder. Instrument type ACT-2 (AST-2) can measure the current in single-phase welding machines, thus permitting control of the main parameter in resistance welding. An automatic welding-current controller maintains constant welding current with varying welding circuit parameters. The All-Union Scientific Research Institute of Electrical Welding Equipment demonstates equipment type YC9N-1 (USEL-1) intended for welding with an electron beam in vacuum on metals that oxidize rapidly and are hard to melt. A similar equipment type 3119-1 (ELU-1) is used with chemically-active metals which react with the atmosphere, The new equipment type BYAC (VUAS) for automatic Card 2/3

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AUTHOR:

Khanapetov, M.V., Engineer

TITLE-

Automatic and Semiautomatic Welding Under Flux

PERIODICAL:

Svarochnoye proizvedstvo, 1960, No. 12, pp. 14-18

TEXT: The author reports on equipment for welding under flux shown in an exhibition, including the following machines. The TC -32 (TS-32) (Figure 1) welding tractor, intended for single-pass, one-sided automatic welding under flux on d-c of 3-12 mm thick steel sheet butt Joints. One-sided welding with full penebead of the seam. The technical characteristics are: diameter of the electrode wire; 2-5 mm; electrode wire feed rate; 2.3-4.7 m/min. Welding rate; 24-50 m/hour; rated current - 900 amp; control limit of the welding current - 400 to 1,200 amp; feed voltage 220 or 380 v; clamping force of the lower suspension the automatic welding of aluminum with a semi-open arc on a flux layer. It is and at the side of the tractor and can be used for welding butt and angular joints Card 1/10

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Automatic and Semiautomatic Welding Under Flux

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on up to 40 mm thick metal and annular seams on containers of 1,000 mm in diameter and more. The technical characteristics are: electrode wire diameter - 1 to 4 mm; welding current - 100 to 800 amp; welling rate 8-60 m/hcur; dimensions of the machine: 750x350x480 mm. The multi-purpose MCA-500 (USA-500) welding machine (Figure 2) is intended for arc welding on dec of straight and annular overlap and butt joints with or without final sharing, with consumable electrodes under flux; in argon or other shielding gases; with unconsumable electrodes with or without filler metal in a gas shield. Technical characteristics: maximum welding current - 500 amr; electrode wire diameter - 0,4-2 mm; tungsten electrode diameter - 2 to 6 mm; electrode wire feed rate: 80 to 1,425 m/hour; welding speed 10 to 60 m/hour. The ALMT-300 (ADMT-300) welding machine (Figure 3) can be used for overlap welding 0.5-3 mm thick metal and thin sheets with plates (overlap of about 1 + 40 mm) under flux or in shielding gas, two electrodes may be used. Technical characteristics: welding wire diameter, 0.2-1.2 mm, electrode wire feed: 1-36 m/min; welding speed: 4-130 m/hour; welding current up to 350 amp; dimensions: 550x170x400 mm; weight - 25 kg. The AIK -500-6 (ADK-500-6) machine designed by VNIIESO, is intended for arc welding under flux or annular seams, arranged on a horizontal, vertical or inclined surface. A round table, alfeed mechanism with a welding head and a control desk are mounted on a stand, the table

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Automatic and Semiautomatic Welding Under Flux

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rotates at 0.18-2.61 rev/min; the electrode wire diameter is  $1.6-2.5~\mathrm{mm}_\odot$  the electrode feed rate is 1.5-16 m/min; the diameter of welded annular seams in 150-600 mm; maximum weight of the welded work piece is 400 kg; d-c of 180-600 amp is used, feed voltage is 220 or 380 v; dimensions of the unit; 2,200x1,300x1,747 mm, weight 650 kg. The ACFK-1 (ASGK-1) automatic welding head, developed by NIITRAKTORSEL Khozmash is intended for welding annular seams and is an exchangeable unit of the multi-purpose YCA-2 (USA-2) welding tractor. The head may be used for welding longitudinal seams on a work piece moving toward the fixed head, Welding may be performed under flux and in a shielding gas. Technical characteristics: 150-600 amp current; 25-40 v ar: voltage, 50-650 m/hour electrole feed rate; 1.2-3 m welding wire diameter; dimensions: 1,000x250x700 mm; weight 50 kg. The automotive  $T\Phi\pi$ ..1000 (TFD-1000) automatic machine is intended for welding with a three-phase are of low-alley and carbon steels by single-pass and multipass large seams, using 2 electrodes under flux. The arcs are burning between the electrodes and between each electrode and the work piece. Due to the absence of throttles and other special resistances, the voltage in the circuit remains practically constant. The diameter of the electrode wire is 3-4 mm, current on the electrodes .. 400-1,200 amp; current in the work piece strout .. 200-1,500 amp; electrode feed rate - 200-600 m/hour; welding speed = 17-50 m/hour, Efficiency Card 3/10